

Fig. 1

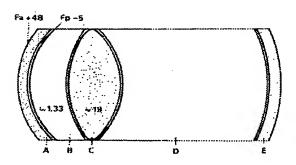


Fig. 2

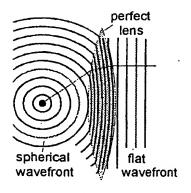


Fig. 3a

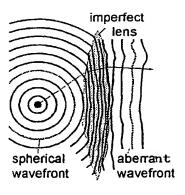
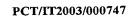
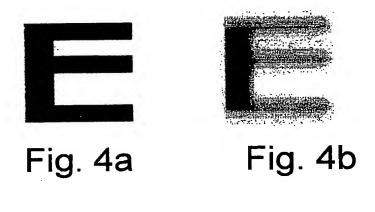


Fig. 3b

Best Available Copy





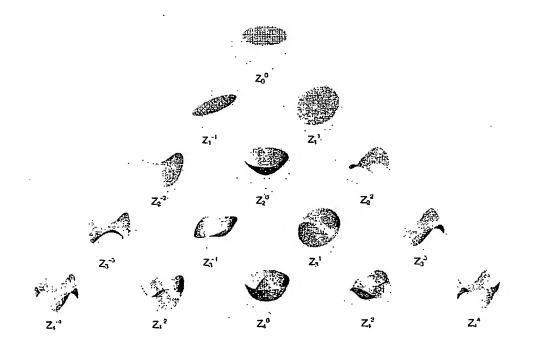


Fig. 5

Term	Order	Polar form	Cartesian form	Description
$Z_0^{\ o}$	0	1	1	
$Z_1^{-1}$	1	$ ho \sin \Theta$	x	inclination about the y axis
$Z_1^{i}$	1	$ ho\cos\Theta$	Υ .	inclination about the x axis
$Z_2^{-2}$	2	$ ho^2 \sin 2\Theta$	2xy	astigmatism with axis a $\pm \pi/4$
$Z_2^{\ 0}$	2	$2\rho^2-1$	-1+2x <sup>2</sup> +2y <sup>2</sup>	focus translation
$Z_2^2$	2	$\rho^2 \cos 2\Theta$	-x²+y²	astigmatism with axis at 0 or $\pi$
$Z_3^{-3}$	3	$\rho^3 \sin 3\Theta$	-x <sup>3</sup> +3xy <sup>2</sup>	triangular astigmatism with base on the x axis.
$Z_3^{-1}$	3	$(3\rho^3-2\rho)\sin\Theta$	-2x +3x <sup>3</sup> +3xy <sup>2</sup>	third order coma along the x axis
$Z_3^{\ 1}$	3	$(3\rho^3-2\rho)\cos\Theta$	-2y +3x <sup>2</sup> y+3y <sup>3</sup>	third order coma along the x axis
$Z_3^{3}$	3	$\rho^3 \cos 3\Theta$	-3x <sup>2</sup> y+y <sup>3</sup>	triangular astigmatism with base on the y axis
$Z_4^{-4}$	4	$\rho^4 \sin 4\Theta$	-4x³y+4xy³	
$Z_4^{-2}$	4	$(4\rho^4 - 3\rho^2)\sin 2\Theta$	6xy +8x³y+8xy³	
Z, 0	4	$6\rho^4 - 6\rho^2 + 1$	$1-6x^2-6y^2+6x^4++12x^2y^2+6y^4$	spherical aberration
$Z_4^2$	4	$(4\rho^4 - 3\rho^2)\cos 2\Theta$	3x <sup>2</sup> -3y <sup>2</sup> -4x <sup>4</sup> +4y <sup>4</sup>	
$Z_4^4$	4	$\rho^4 \cos 4\Theta$	x <sup>4</sup> -6x <sup>2</sup> y <sup>2</sup> +y <sup>4</sup>	

Fig. 6

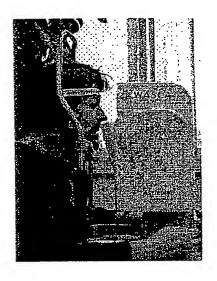


Fig. 7

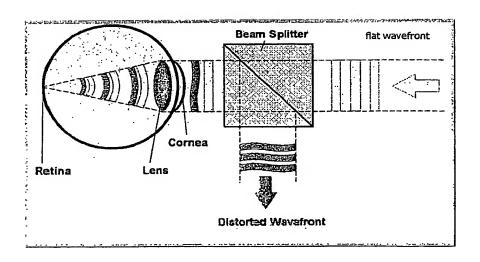


Fig. 8

OD:2-25-00 14:1752

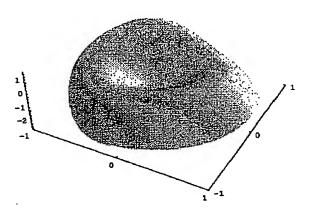


Fig. 9

	II order	III order	IV order
			Z <sub>4</sub> -4: -0.188
		Z <sub>3</sub> -3: -0.185	
	$Z_2^{-2}$ : -0.722		Z <sub>4</sub> -2: -0.112
		$Z_3^{-1}$ : -0.746	
	$Z_2^0$ : -0.079		$Z_4^0$ : -0.873
<u>.</u>		Z <sub>3</sub> <sup>1</sup> : -0.466	
	$Z_2^2$ : -0.254		$Z_4^2$ : -0.093
		$Z_3^3$ : -0.035	
			Z <sub>4</sub> <sup>4</sup> : 0.105

Fig. 10

		7	
•	quantity		value
	sphere	X	-0.30 d
1	cylinder	X	-0.50 d
	axis		8*
2	pupil diamete		3.59 mm
3	analysis dian		3.59 mm
1	Z(3,-3):		0.061 µm
	Z(3,-1)		-0.143 µm
	Z(3,1)		-0.096 µm
1	Z(3,3)	~	-0.059 µm
4	Z(4,-4)		0.047 µm
- 1	Z(4,-2)		0.007 µm
	Z(4,0)	<u>.</u>	-0.048 µm
	Z(4,2)		-0.017 µm
	Z(4,4)		0.002 µm
1	PV OPD		2.08 µm
5	RMS OPD	<u>.</u>	0.45 µm
<b>~</b> .	PV OPD HO		0.41 µm
. ■.	RWS OPD HC	Ŀ	0.07 µm
6	x offset		0.53 mm
Ĭ.	y offset	Ľ	-0.83 mm

Fig. 11

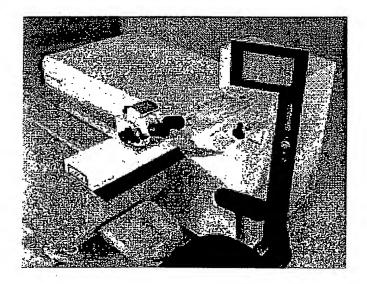
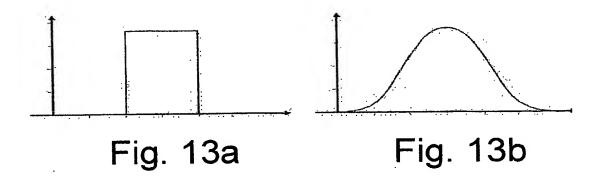


Fig. 12



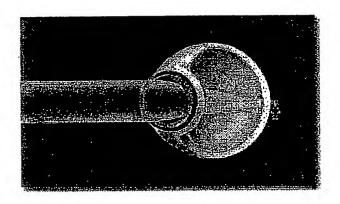


Fig. 14

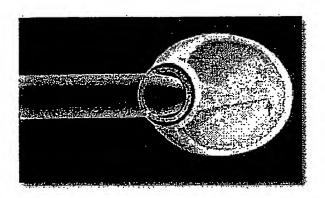


Fig. 15

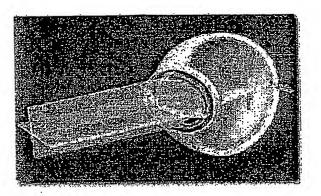


Fig. 16

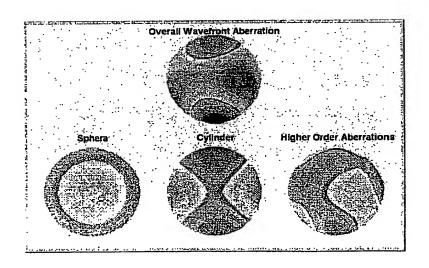
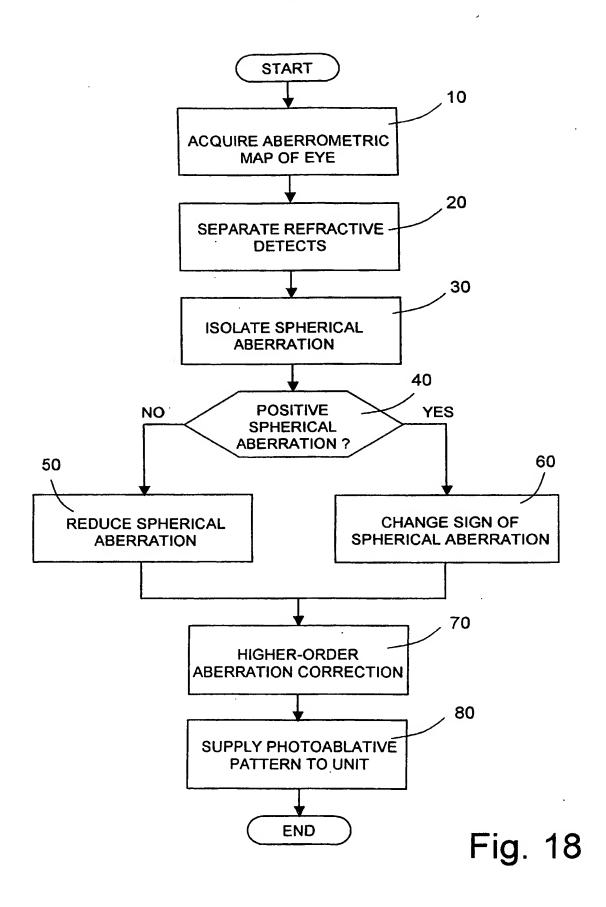


Fig. 17



## This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:
☐ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY.SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
Потитр.

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.